



VISION AND MISSION OF THE COLLEGE

PRAKASAM ENGINEERING COLLEGE (AUTONOMOUS)
 O.V.Road, Kandukur, SPSR Nellore Dist., A.P., Tel : 08598 222288, 221300
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NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
PRAKASAM ENGINEERING COLLEGE
COLLEGE CODE : PKSK

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VISION, MISSION

Vision :
To emerge as a place of brilliance providing technological Knowledge and Research oriented exploration and making students to meet the global standards.

Mission :
Impart professional and communication skills by providing proficient faculty, qualitative infrastructure which assists students in learning, practicing and innovative applications and also infusing moral and value based education for their real life development.

PROGRAMME – COMPUTER SCIENCE AND ENGINEERING

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DEPARTMENT OF CSE

About Department

ABOUT DEPARTMENT

The commencement of the department of CSE was in 2001 and had successfully integrated the years of excellence and still incomparable. The Department offers B.Tech Program in Computer Science and Engineering with an annual intake of 120 and M.Tech program in Computer Science and Engineering with an annual intake of 18. The department has strategically gained experienced faculty members who expertise in various subjects makes academic excellence. The department has engaged in training students towards industry needs with necessary software exposure right from the day of its establishment. The department has acquainted in conducting guest lectures, workshops, student paper presentation and conferences. The department of CSE encourages students to participate in various extra-curricular activities and competitions held by other universities and colleges within the state and outside the state. The students also have won laurels to the college by winning prizes in various competitions..

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VISION & MISSION

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VISION & MISSION

Vision : To evolve as a centre of academic excellence in Computer Science & Engineering by building strong teaching and skill development team.

Mission : To offer high quality graduate and post graduate programs in computer science education and to prepare students for gainful employment. To enhance career opportunities through comprehensive soft skills development. To develop self learning abilities and professional ethics to serve the society.

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PROGRAMME OUTCOMES (POs), PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

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PO'S, PEO'S, PSO'S

PROGRAMME OUTCOMES

1. PO1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2. PO2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. PO3. **Design / development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. PO4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. PO5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. PO6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues and the consequent responsibilities relevant to the engineering practice.
7. PO7. **Environment and sustainability:** Understand the impact of the professional engineering solutions In societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. PO8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. PO9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. PO10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. PO11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects' and in multidisciplinary environments.
12. PO12. **Life-Long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Faculty context of technological change.

PEO'S :

- PEO I. Excel in professional career by acquiring knowledge in Computer Science and IT enabled services.
- PEO II. Exhibit professional skills to function as members of multi-disciplinary teams, communicate effectively and be conversant with modern tools.
- PEO III. Practice the profession with ethics, social responsibility and exhibit leadership qualities.

ARTICULATION OF PEOs

- PEO 1: The graduates should have sound knowledge in the basic science subjects such as Mathematics, Physics and Chemistry. They should have in-depth exposure and knowledge to mathematics to the level required for their branch of engineering specialization. They should have the ability to apply the science and mathematics in solving complex problems in the field of Computer Science & Engineering and related fields.
- PEO 2: The graduates should be able to adopt themselves to the industry with minimal amount of training. The graduate should be able to pursue their career in any related industry with high degree of technical competency. Leadership qualities of a student can be initiated by means of high degree of professional abilities.
- PEO 3: The graduates should be aware of professional ethics and practice them in their professional life. They must understand the prioritized needs of the society and use professional practice for improving the standards of society. Must ensure that the profession practices should be healthy and must in no way be detrimental to the society.

PSO'S A graduate of the Computer Science and Engineering Program will demonstrate:

- PSO1: Professional Skills: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.
- PSO2: Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.
- PSO3: Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

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Course Outcomes of Computer Science and Engineering

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PROGRAMME – ELECTRONICS AND COMMUNICATION ENGINEERING

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ABOUT DEPARTMENT

The Department offers a B. Tech. program in Electronics and Communication Engineering and a M. Tech. degree in VLSI &ES Design. The faculty team consists of experts from the industry and academia. The department is highly praised for its activities in the technical front, contributing highly towards the development of cutting edge technologies and professionals. While building a solid foundation of the fundamentals, the students are also exposed to emerging trends in the industry and are molded to be quality professionals of the future. Electronics and Communication Engineering laboratories are equipped with state-of-the-art equipment and advanced software that enables the design of Very Large Scale Integrated (VLSI) circuits. The department offers hands on training to the students to meet the requirements of industry through well-equipped and updated technological laboratories with state of the art equipment under the guidance of highly qualified, experienced and dedicated faculty.

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VISION & MISSION

VISION

To produce professionally competitive engineering graduates in Electronics & Communication Engineering with concern for society.

MISSION

- 1.To impart quality education to the students in the domain of Electronics & Communication Engineering and related fields to make them professionally competitive.
2. To impart required skills to the students to make them employable with minimum orientation.
- 3.Develop self-learning abilities and professional ethics to enable them to serve the society.

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DEPARTMENT OF ECE

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PO's, PEO's, PSO's	<ol style="list-style-type: none"> PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. PO3. Design / development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues and the consequent responsibilities relevant to the engineering practice. PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development. PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and Apply these to their own work, as a member and leader in a team, to manage projects' and in multidisciplinary environments. PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
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DEPARTMENT OF ECE

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Vision & Mission	PEO'S:
PEO's, PSO's	<p>PEO 1: Excel in their professional career in Electronics & Communication Engineering and related fields</p> <p>PEO 2: Exhibit leadership through professional ability, ethical practices and team work</p> <p>PEO 3: Adapt to emerging trends in their relevant areas of interest for sustained growth and exhibit social responsibility.</p>
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PSO'S

PSO1: The ability to absorb and apply fundamental knowledge of core Electronics and Communication Engineering subjects in the analysis, design, and development of various types of integrated electronic systems as well as to interpret and synthesize the experimental data leading to valid conclusions.

PSO2: Competence in using electronic modern IT tools (both software and hardware) for the design and analysis of complex electronic systems in furtherance to research activities.

PSO3: .To acquire Knowledge for sustainable development and environmental awareness with ethical responsibility and to have a successful career and continually enhance lifelong learning skills for real time applications using optimal resources as an Entrepreneur.

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COURSE OUTCOMES (COs)

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Course Outcomes of Electronics and Communication Engineering

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PROGRAMME – ELECTRICAL AND ELECTRONICS ENGINEERING

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ABOUT DEPARTMENT

The Department of Electrical & Electronics Engineering was established in the year 2002 with an intake of 60 students and subsequently enhanced to 90 in the year 2004, and 120 in 2011 for B.Tech programme. The Department also offers M.Tech programme with specialization in Power Electronics from the academic year 2011 with an intake of 18 and Electrical Power Systems in 2013 with an intake of 18.

The department has made significant growth in terms of infrastructural and academic standards on par with other premier institutions in Andhra Pradesh. The department has well experienced professors with Ph.D and M.Tech qualifications, Associate and Assistant Professors with M.Tech qualification and maintains a faculty student ratio of 1:15 as per AICTE norms. The department has fully equipped laboratories/licensed softwares for UG and PG Programmes to impart practical knowledge to students who can take up any assignment after their graduation/post graduation. EEE department has taken main initiative in starting up the solar power plant in the college premises. The faculty provides total support to the student for taking part in securing government jobs. EEE alumni always finds available to the college when their presence is needed. Faculties are students' oriented and give top most priority to train students to secure job and get settled.

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VISION & MISSION

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VISION & MISSION

VISION

To become an excellence in bringing out the most talented inventors, entrepreneurs, researchers in the department of Electrical and Electronics Engineering with self proficiency in education and bring value to knowledge based idea.

MISSION

1. To flourish the department with dedicated and highly qualified faculty to provide the proper support to the students in education.
2. To develop genuine and dedicated electrical engineers with service motto.

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PROGRAMME OUTCOMES (POs), PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

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PO'S, PEO'S, PSO'S

PO'S

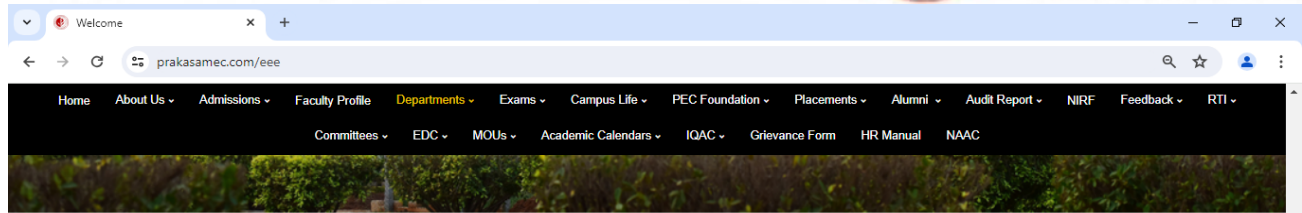
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PEO'S

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PEO'S, PSO'S

PEO'S

PEO: I Have strong fundamental knowledge and ability to adapt emerging technologies in Electrical and allied Engineering, thereby achieving success in their professional career and higher education. . PEO :II Work as a practicing engineer in planning, designing, testing, manufacturing, operation, maintenance, execution and other relevant areas of Electrical & Electronics Engineering. PEO:III Have leadership, team-spirit and enterprising skills with effective communication abilities to serve the society and the Nation.

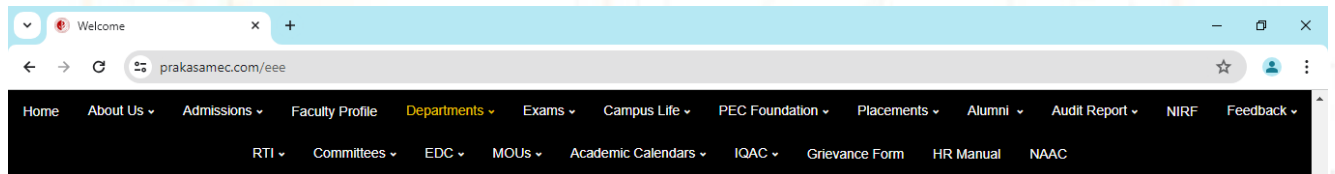
PSO'S

PSO:1 Analyze, Design and simulate diverse problems associated in the field of Electrical, Electronics and computer based system. PSO:2 Ability to apply technological developments in field of Electrical & Electronics Engineering in Societal and environmental Context and communicate effectively both individually and in multidisciplinary teams.

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PROGRAMME – COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE)

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)

About Department

ABOUT DEPARTMENT

The Department of Computer Science and Engineering-Artificial Intelligence was established in the year 2020 with an intake of 60 students. Artificial Intelligence (AI) is emerging as one of the most sought-after skills leading to lucrative careers in cutting edge AI technology. This course aims at providing not only the core technologies such as artificial intelligence, data mining and data modeling but also offers intensive inputs in areas of machine learning, deep learning and big data analytics taught by industry experts.

Building human-level thought process through the creation of artificial intelligence (AI) is the state-of-art in Computer Science. The students will graduate with important skills in Design Thinking, strategic planning and corporate connect in addition to the engineering skills. The course focuses on creating innovative methodologies to solve challenging real world problems using AI.

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE)

Vision & Mission

Vision

- To build an ecosystem to contribute to society by producing leaders in Artificial Intelligence through education and research.

Mission

- Train the students in the state-of-the-art technologies of AI.
- Sensitize students to solve societal issues through AI techniques by inculcating values and ethics.
- Enhance employability and entrepreneurial skills in the field of AI through experiential and self-directed learning.
- Foster research aptitude among the students through project-based learning

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PO'S, PEO'S, PSO'S

PROGRAMME OUTCOMES

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PROGRAMME EDUCATIONAL OBJECTIVES

Graduate shall have knowledge in applied and basic engineering sciences to understand engineering principles which is necessary to formulate and solve problems related to Artificial Intelligence.

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PROGRAMME EDUCATIONAL OBJECTIVES

Graduate shall have knowledge in applied and basic engineering sciences to understand engineering principles which is necessary to formulate and solve problems related to Artificial Intelligence.

1. Graduate shall have knowledge in experimentation, analysis and synthesis of Artificial Intelligence courses to Design/Innovate and create novel products/Solutions to real life problems.
2. Graduate shall have Managerial and entrepreneur skills, ethical and professional attitude in multidisciplinary approach to meet the needs of industry and society.
3. Graduate shall go for further studies, research, lifelong learning to adopt oneself in the phase of changing technologies to ensure the students to success in engineering position globally.

PROGRAMME SPICIFIC OUT COMES

1. Domain Knowledge: The Artificial Intelligence graduates will able to identify and analyze end user needs and take them into account in the selection, creation, evaluation and administration of AI solutions.
2. Process Management: An ability to organize an AI infrastructure by managing, monitoring the resources and safeguard the data.

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COURSE OUTCOMES (COs)

prakasamec.com/artificial_intelligence

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Course Outcomes of CSE - Artificial Intelligence

PROGRAMME – COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

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ABOUT DEPARTMENT

Computer Science & Engineering-Cyber security undergraduate engineering course has been started by the institute from the academic year 2020-21 with the intake capacity of 60 seats. This B.Tech CSE (Cyber Security) undergraduate programme familiarizes students with the functional and operational aspects of Cyber Security

Cyber Security is a specialized field in Information Technology (IT) which is regarded as a sub stream in Computer Science. Cyber Security courses aims to equip students with the knowledge and skills required to defend the computer operating systems, networks and data from cyber-attacks.

Cyber Security as a profession is evolving over the years, reason being the increasing rate of cyber crimes. Any industry that transacts online or carries sensitive data is in need of a Cyber Security professional to safeguard its date from such delinquents. Cyberspace being a common platform which is accessed anyone from every corner of the world; the scope of cyber security is equally spread across the globe.

A lucrative, growing field, cyber security focuses on protecting organizations from digital attacks and keeping their information and networks safe. Cyber security experts detect vulnerabilities, recommend software and hardware programs that can mitigate risks, and develop policies and procedures for maintaining security.

As more businesses move their operations online, and with cyber attacks on the rise, the need for skilled cyber security professionals is projected to grow, particularly for healthcare and financial organizations.

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VISION & MISSION

Welcome x +

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VISION & MISSION

Vision

- Ignite and nurture young learners to provide a sustainable, humane, and research-centric educational platform in the domain of cyber security for building a robust, resilient, and attack-free digital universe.

Mission

- Provide committed and competent faculty and educational infrastructure to impart the theoretical and practical foundation of cyber security in the emanating youth.
- Establish MoUs and Centre of Excellences (CoEs) with Information Technology Sector to provide industry-ready cybersecurity graduates with research instinct imbued for the sustainable development of young learners
- Build collaborative and teamwork-centric project-oriented learning environment, to address global challenges whilst preserving human and ethical values.
- Encourage young minds to educate society to restore nationwide human safety and security in digital world.

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PROGRAMME OUTCOMES (POs), PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

Welcome x +

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PO'S, PEO'S, PSO'S

PROGRAMME OUTCOMES

- PO1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
- PO2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. **Design / development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4 **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues and the consequent responsibilities relevant to the engineering practice.
- PO7. **Environment and sustainability:** Understand the impact of the professional engineering solutions In societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- PO8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects' and in multidisciplinary environments.
- PO12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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8. PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
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12. PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME EDUCATIONAL OBJECTIVES

1. PEO 1: To gain expertise in engineering principles to solve problems associated to Computer Science and Engineering specialized with Cyber Security.
2. PEO 2: To develop the talent of critical thinking, design and analyse to offer socially acceptable solutions to real-time problems in the domain of computing with global competence
3. PEO 3: To inculcate managerial and entrepreneur skills with professional ethics and decision making aptitude in multidisciplinary field to meet the demands of industry
4. PEO 4: To imbibe lifelong learning with research to adapt the dynamic changes in technology to solve complex problems of the society

PROGRAMME SPECIFIC OUTCOMES

1. PSO 1: To apply customary software engineering ideologies to develop IT based solutions
2. PSO 2: To gain real-world competency with emerging technologies and programming skills to secure software and hardware in the field of CSE Smart Automation

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PROGRAMME – CIVIL ENGINEERING



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ABOUT DEPARTMENT

The Department of Civil engineering is established in 2013. The Civil Engineering Department administers a Civil Engineering program that will produce graduates who are ready to work, high in quality, skilled in information technology and are professional in nature. The department also strives to undertake a program in community service and to disseminate advanced technical knowledge to engineers, other professionals and the public. The department of Civil Engineering ensures that the Students have the opportunity to work with latest equipment both in the laboratories and while on project with various construction companies in and around the city. Universal Testing machines, UV Spectrophotometer, 200 T Compressive Testing Machine, Constant heat B.O.D. Incubators are few instruments that they regularly use during their sessionals. Fields in which the faculty is specialized are Structural Engineering, Geo-Technical Engineering, Hydrology, Water Resources, Foundation Engineering, Construction Management, Entrepreneurship etc. To become a study Program that is accepted as a model in the field of civil engineering education and leads to the application of civil engineering to provide quality professional and community services.

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PROGRAMME OUTCOMES (POs), PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)



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PO'S, PEO'S, PSO'S

PO'S

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PEO'S:

12. PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PEO'S:

PEO 1 : To impart quality education and knowledge in contemporary science and technology to meet the challenges in the field of Civil Engineering and to serve the society.
PEO 2 : To impart the knowledge of analysis and design using the codes of practice and software packages.
PEO 3 : To inculcate the sense of ethics, morality, creativity, leadership, professionalism, self confidence and independent thinking.
PEO 4 : To motivate the students to take up higher studies and innovative research projects.

PSO'S

PSO 1 : The student has the ability to apply the knowledge of Physics, Chemistry, Mathematics, Programming Skills and Soft Skills to solve Civil Engineering problems.
PSO 2 : The student has the proficiency in streams of Civil Engineering to visualise and execute the systems for sustainable living.
PSO 3 : The student has the practical knowledge and experimental skills to tackle Civil Engineering problems using technical and management skills, exhibiting professional ethics to meet the societal needs.
PS O4 : The programme enables the faculty to develop academic proficiency by involving in research & innovation, interaction with industry and professional bodies through technical advice and Continuing Education Programs (CEP) to meet the needs of the user system.

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COURSE OUTCOMES (COs)

The screenshot shows a web browser window with the URL prakasamec.com/civil. The navigation menu includes Home, About Us, Admissions, Faculty Profile, Departments, Exams, Campus Life, PEC Foundation, Placements, Alumni, Audit Report, NIRF, Feedback, RTI, Committees, EDC, MOUs, Academic Calendars, IQAC, Grievance Form, HR Manual, and NAAC. The page title is "DEPARTMENT OF CIVIL". A sidebar menu on the left lists: About Department, Vision & Mission, PO's, PEO's, PSO's, CO's (highlighted in red), HOD Profile, Facilities/Laboratories, Syllabus, Events, Achievements, and Toppers. The main content area features a red button labeled "Course Outcomes of Civil Engineering". An "Activate Windows" watermark is visible in the bottom right corner.

PROGRAMME – MECHANICAL ENGINEERING

The screenshot shows a web browser window with the URL prakasamec.com/mech. The navigation menu is identical to the previous page. The page title is "DEPARTMENT OF MECHANICAL ENGINEERING". The sidebar menu on the left lists: About Department (highlighted in red), Vision & Mission, PO's, PEO's, PSO's, CO's, HOD Profile, Facilities/Laboratories, Syllabus, Events, Achievements, and Toppers. The main content area is titled "ABOUT DEPARTMENT" and contains the following text: "The department was established in 2013 with intake of 60 students. The department has excellent lab facilities and it has qualified, experienced and committed faculty members. The department gives importance not only to academic education and also ethical values and personality development of students. The students of mechanical department regularly organize various technical and extra curricular events. The department is also actively involved in placement of the students through ON/OFF campus interviews." An "Activate Windows" watermark is visible in the bottom right corner.



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DEPARTMENT OF MECHANICAL ENGINEERING

About Department	<h4>VISION & MISSION</h4> <h5>VISION</h5> <p>: To become a center of Excellence in producing the graduates as professional Mechanical Engineers with a high-quality education, innovative and entrepreneurial skills to secure the society and industry needs.</p> <h5>MISSION</h5> <ol style="list-style-type: none"> To impart high-quality education in curriculum and to build the students in their capacity and enhancing skills to make them globally competitive Mechanical Engineers. To prepare the students by providing exceptional academic environment, leadership, ethical guidelines and lifelong learning needed for a long professional career. To enhance the overall academic performance of the students gradually and thereby increasing their placement potential. To build the institute-industry interaction by providing the internship programs.
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DEPARTMENT OF MECHANICAL ENGINEERING

About Department	<h4>PO'S, PEO'S, PSO'S</h4> <h5>PO'S</h5> <ol style="list-style-type: none"> PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. PO3. Design / development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues and the consequent responsibilities relevant to the engineering practice. PO7. Environment and sustainability: Understand the impact of the professional engineering solutions In societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development. PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects' and in multidisciplinary environments. PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. <h5>PEO'S:</h5>
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Faculty

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PEO'S:

PEO 1 : To prepare mechanical engineering graduates with an outstanding knowledge of mathematical, scientific, engineering, technology, management, humanities and various other interdisciplinary subjects for a successful career.

PEO 2 :To equip students with modern tools, technology and advanced software's for deliberating engineering solutions.

PEO 3: Able to work individually and effectively in a team with a commitment to complete the task using proper communication skills, management skill and by updating the knowledge continuously in the work field.

PSO'S

PSO 1 : Our graduate engineers will apply all the basic principles of mechanical engineering required in both private and public sector organizations. They can contribute to all national level research projects

PSO 2 : We produce graduate engineers specialized in Thermal, Manufacturing and Design.

PSO 3 : Our students are well equipped with industrial management skills, and interdisciplinary technologies.

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PROGRAMME – MASTER OF BUSINESS APPLICATIONS

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11. PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects' and in multidisciplinary environments.
12. PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PEO'S:

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PEO'S:

- Graduates will accomplish the managerial expertise in and be successful in their career, be leaders in multi-disciplinary teams.
- Graduates will have the ability to engage in sustained learning through higher studies and update the knowledge in the field.
- Graduates will apply the professional knowledge in their profession with good ethical standards for the welfare of mankind.

PSO'S

- PSO1: Students should exhibit their knowledge of management principles.
- PSO2: Students should demonstrate their critical-thinking and problem solving skills.
- PSO3: Students should manifest their leadership qualities.
- PSO4: Students should prove an awareness of their own values.
- PSO5: Students should show a sense of responsibility.
- PSO6: Students should evince their ability to recognize when change is needed, adapt to change.

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PROGRAMME – MASTER OF COMPUTER APPLICATIONS

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ABOUT DEPARTMENT

To cater to the needs of students, Prakasam Engineering College has started Master of Computer Applications (MCA) course in the year 2004 with excellent infrastructure. MCA is a Post Graduate program of three years course spanning over six semesters, last semester is exclusively reserved for project work. Our MCA department is well equipped with qualified and experienced staff, computer laboratories and Internet facilities. Students can make use of these facilities to enrich their working knowledge on computer domain. Students are admitted into MCA course through ICET entrance examination conducted by government of Andhra Pradesh. Students who have passed the Bachelor Degree examination with not less than 50% of the marks in the aggregate with mathematics as one of the subjects at 10+2 level can write the entrance examination..

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W : www.prakasamec.com



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VISION & MISSION

VISION

To emerge as a premier knowledge center for imparting computing education and inculcating human values to solve global challenges

MISSION

1. To enable the students to be knowledgeable and creative through innovative teaching methodologies
2. To provide training programs that bridges the gap between academia and industry to produce competitive software professionals
3. To inculcate ethical values in students enabling them to become socially committed professionals
4. To enhance the research quality and productivity by providing required facilities and industry collaboration.

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PROGRAMME OUTCOMES (POs), PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

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PO'S, PEO'S, PSO'S

PO'S

1. PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2. PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. PO3. Design / development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess health, safety, legal and cultural issues and the consequent responsibilities relevant to the engineering practice.
7. PO7. Environment and sustainability: Understand the impact of the professional engineering solutions In societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
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PEO'S:

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PEO'S:

PEO-I: Learn and apply computing and managerial principles to excel in professional career and in the field of Computer Applications as an individual, as part of a team, as an entrepreneur and equip them with orientation towards research. PEO-II: Analyze real world problems, design and develop solutions through the knowledge of mathematics and computing principles that are socially acceptable. PEO-III: Exhibit professional ethics, cyber regulations and communication skills, engage in lifelong learning and to adapt emerging technologies and tools.

PSO'S

1. PSO1: Professional Skills: The ability to model and develop efficient algorithms and software applications as safe and secure Information Technology Solutions. 2. PSO2: Successful Career and Entrepreneurship: The ability to embark on research & development after mastering modern computer languages, environments and platforms.

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